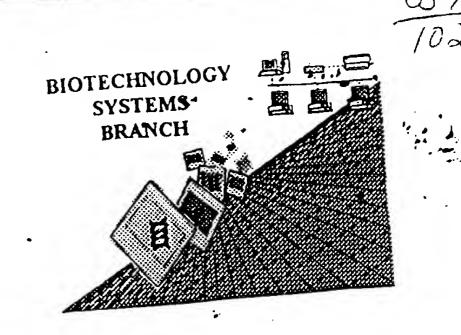
## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 0' Source: Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216 PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <u>patin3help@uspto.gov</u> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2Kcompliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

••	Raw Sequence Listing Error Summary
•• ••	SUCCESTED CORRECTION . SERIAL NUMBER: 09/974870
TOTAL PETECTED	SUGGESTED CORRECTION . SERIAL NUMBER: / / / / / / / / / / / / / / / /
KKUK DETECT	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WE HAVE GIVE
	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will was retrieved in a word processor after creating it.
1 Wrapped Nucleics Wrapped Aminos	Was retrieved in a word pro-
e e e io e e	22 characters in length. This includes
2Invalid Line Length	The rules require that a line not exceed a substance of the sumbering under each 5th amino acid is misslighted. Do not use tab codes between numbers,
3Misaligned Amino Numbering	The numbering under com-
	CONTOCTION AS LEGITLES BY the pedanter
4Non-ASCII	ensure your subsequent
5Variable Length.	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,  Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,  seach n or Xaa can only represent a single residue. Please present the maximum number of each  each n or Xaa can only represent a single residue. Please present the maximum number of each  residue having variable length and indicate in the <220> <223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220> <223> section to be missing from amino acid  A "bug" in Patentin version 2.0 has caused the <220> <223> section to be missing from amino acid  sequences(s)  Normally, Patentin would automatically generate this section from the sequences(s)  previously coded nucleic acid sequence. Please manually copy the relevant <220> <223> sections for the subsequent amino acid sequence. This applies to the mandatory <220> <223> sections for
7Skipped Sequences (OLD RULES)	Artificial or Unknown sequences.  Artificial or Unknown sequences.  Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (3) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
8 Skipped Sequences	This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.  Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence <210> sequence id number
(NEW RULES)	<400> sequence id number
A	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Use of n's and/or Xaa's have been detected in the Sequence Listing.  Use of n's and/or Xaa's have been detected in the Sequence Listing.
9Use of n's or Xaa's (NEW RULES)	Per 1.823 of Sequence Rules, and which restource of the control of
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valld <213> responses are: Onchowig 12 to the only valld <213> responses are: Onchowig 12 to the only valld <213> response is Unknow accientific name (Genus/species). <220>-<223> section is required when <213> response is Unknow accientific name (Genus/species).
11Use of <220>	Sequence(s)missing the <220> "Feature" and associated numeric licitatives of Sequence of Mandatory if <213> "Organism" response is "Artificial Sequence" or Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. "Unknown." Please explain source of genetic material in <220> to <223> section.
Patentin 2.0 "bug".	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes on raw sequence resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
25/	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent
13 Misuse of n	and walle hot specificant
	AMC/MH - Biotechnology Systems Branch - 08/21/2001

DATE: 10/30/2001

TIME: 12:00:55

OIPE

```
Input Set : A:\pto_vsk.txt
                     Output Set: N:\CRF3\10302001\I974870.raw
      3 <110> APPLICANT: Whitcombe, David M
              Theaker, Jane
              Gibson, Neil J
              Little, Stephen
      8 <120> TITLE OF INVENTION: Methods for Detecting Nucleic Acid Sequences
     10 <130> FILE REFERENCE: 1991-143
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/974,870
C--> 13 <141> CURRENT FILING DATE: 2001-10-12
     15 <150> PRIOR APPLICATION NUMBER: UK/9812768.1
     16 <151> PRIOR FILING DATE: 1998-06-13
                                                                   Does Not Comply
     18 <160> NUMBER OF SEQ ID NOS: 8
     20 <170> SOFTWARE: PatentIn Ver. 2.1
                                                               Corrected Diskette Needed
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 60
     24 <212> TYPE: DNA
     25 <213> ORGANISM: Artificial Sequence
     27 <220> FEATURE:
                                               would be with reputation value must
     28 <223> OTHER INFORMATION: Description of Artificial Sequence: B2098-BRCA
              Scorpions primer
     29
     31 <220> FEATURE:
     32 <221> NAME/KEY: stem_loop
     33 <222> LOCATION: (1)..(29)
     35 <220> FEATURE:
     36 <221> NAME/KEY: misc_feature
     37 <222> LOCATION: (30)
                                      MR = a non-fluorogenic fluorophore attached to
     38 <223> OTHER INFORMATION: (n)
               a uracil
     41 <220> FEATURE:
     42 <221> NAME/KEY: misc_feature
     43 <222> LOCATION: (31)
     44 <223> OTHER INFORMATION: n = HEG = blocking hexethylene glycol monomer
     46 <400> SEQUENCE: 1
W--> 47 cgcacgatgt agcacatcag aagcgtgcgm nttggagatt ttgtcacttc cactctcaaa 60
     50 <210> SEQ ID NO: 2
     51 <211> LENGTH: 29
     52 <212> TYPE: DNA
     53 <213> ORGANISM: Artificial Sequence
     55 <220> FEATURE:
     56 <223> OTHER INFORMATION: Description of Artificial Sequence: R186-98,
              Untailed equivalent of B2098 primer
     59 <400> SEQUENCE: 2
                                                                              29
     60 ttggagattt tgtcacttcc actctcaaa
     63 <210> SEQ ID NO: 3
     64 <211> LENGTH: 30
                                                     The type of errors shown exist throughout
     65 <212> TYPE: DNA
                                                     the Sequence Listing. Please check subsequent
     66 <213> ORGANISM: Artificial Sequence
                                                     sequences for similar errors.
     68 <220> FEATURE:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,870

DATE: 10/30/2001

TIME: 12:00:55

Input Set : A:\pto\_vsk.txt Output Set: N:\CRF3\10302001\I974870.raw 69 <223> OTHER INFORMATION: Description of Artificial Sequence: Z3702, Probe segment of the Scorpions B2098 primer 70 72 <220> FEATURE: 73 <221> NAME/KEY: stem\_loop 74 <222> LOCATION: (1)..(29) 76 <220> FEATURE: 77 <221> NAME/KEY: misc\_feature 78 <222> LOCATION: (30) MR = a non-fluorogenic fluorophore attached to 79 <223> OTHER INFORMATION: [n] a uracil 80 82 <400> SEQUENCE: 3 30 W--> 83 cgcacgatgt agcacatcag aagcgtgcgn 86 <210> SEQ ID NO: 4 87 <211> LENGTH: 50 88 <212> TYPE: DNA 89 <213> ORGANISM: Artificial Sequence 91 <220> FEATURE: 92 <223> OTHER INFORMATION: Description of Artificial Sequence: B2731 Scorpion 93 primer 95 <220> FEATURE: 96 <221> NAME/KEY: misc\_feature 97 <222> LOCATION: (18) 98 <223> OTHER INFORMATION: n = MR = a non-fluorogenic fluorophore attached toa uracil 99 101 <220> FEATURE: 102 <221> NAME/KEY: misc\_feature 103 <222> LOCATION: (19) 104 <223> OTHER INFORMATION: n = H = blocking hexethylene glycol monomer106 <400> SEQUENCE: 4 W--> 107 aggtagtgca gagagtgnng agcctcaaca tcctgctccc ctcctactac 50 110 <210> SEQ ID NO: 5 111 <211> LENGTH: 49 112 <212> TYPE: DNA 113 <213> ORGANISM: Artificial Sequence 115 <220> FEATURE: 116 <223> OTHER INFORMATION: Description of Artificial Sequence: B4249 Scorpion primer without quencher on same molecule 117 119 <220> FEATURE: 120 <221> NAME/KEY: misc\_feature 121 <222> LOCATION: (18) 122 <223> OTHER INFORMATION: n = h = blocking hexethylene glycol monomer124 <400> SEQUENCE: 5 W--> 125 aggtagtgca gagagtgnga gcctcaacat cctgctcccc tcctactac 49 128 <210> SEQ ID NO: 6 129 <211> LENGTH: 18 130 <212> TYPE: DNA 131 <213> ORGANISM: Artificial Sequence 133 <220> FEATURE:

134 <223> OTHER INFORMATION: Description of Artificial Sequence: Quencher

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,870

RAW SEQUENCE LISTING

DATE: 10/30/2001 TIME: 12:00:55

PATENT APPLICATION: US/09/974,870

Input Set : A:\pto\_vsk.txt Output Set: N:\CRF3\10302001\I974870.raw

- oligonucleotide for B4249 (complement tail) 135
- 137 <220> FEATURE:
- 138 <221> NAME/KEY: misc\_feature
- 139 <222> LOCATION: (18)
- 140 <223> OTHER INFORMATION: n = MR = a non-fluorogenic fluorophore attached to
- a uracil 141
- 143 <400> SEQUENCE: 6
- W--> 144 cactctctgc actacctn
  - 147 <210> SEQ ID NO: 7
  - 148 <211> LENGTH: 28
  - 149 <212> TYPE: DNA
  - 150 <213> ORGANISM: Artificial Sequence
  - 152 <220> FEATURE:
  - 153 <223> OTHER INFORMATION: Description of Artificial Sequence: ARMS primer
  - 154 R284-97
  - 156 <400> SEQUENCE: 7
  - 157 ttcggggctc cacacggcga ctctcaac

28

18

- 160 <210> SEQ ID NO: 8
- 161 <211> LENGTH: 28
- 162 <212> TYPE: DNA
- 163 <213> ORGANISM: Artificial Sequence
- 165 <220> FEATURE:
- 166 <223> OTHER INFORMATION: Description of Artificial Sequence: ARMS primer
- R283-97 167
- 169 <400> SEQUENCE: 8
- 170 ttcggggctc cacacggcga ctctcaag 28

VERIFICATION SUMMARY

DATE: 10/30/2001 TIME: 12:00:56

PATENT APPLICATION: US/09/974,870

Input Set : A:\pto\_vsk.txt

Output Set: N:\CRF3\10302001\I974870.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6